

Title (en)

A process for the production of granulated di-ammonium phosphate containing fertilizer.

Title (de)

Verfahren zur Herstellung von granuliertes Diammonphosphat enthaltenden Düngemitteln.

Title (fr)

Procédé de production d'un engrais granulaire contenant du phosphate diammonique.

Publication

EP 0367849 A1 19900516 (EN)

Application

EP 88118571 A 19881108

Priority

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Abstract (en)

The present invention relates to a process for the production of granulated di-ammonium phosphate containing fertilizers and comprising ammoniation of phosphoric acid in a tubular reactor situated in a drier. All the phosphoric acid and substantially all the ammonia is fed via a tubular reactor feeding the drier. The recycle ratio is less than 3:1. The phosphoric acid concentration is preferably between 36 and 50% P₂O₅. The ratio applied between ammonia and phosphoric acid results in ammonium phosphate leaving the tubular reactor having an N:P mole ratio of 1.6-2.0:1. Urea and/or a potassium source may be supplied to the granulator for making NP- or NPK-fertilizer.

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IPC 8 full level

C05B 7/00 (2006.01)

CPC (source: EP)

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Citation (search report)

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- [A] US 4758261 A 19880719 - PARKER BYRON R [US], et al
- [Y] CHEMICAL ABSTRACTS, vol. 102, no. 26, July 1985, page 117, abstract no. 222787a, Columbus, Ohio, US; F.J. ROIG et al.: "Optimization of the production process of ammonium phosphates", & ING. QUIM. (MADRID) 1985, 17(190), 87-90
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CN103435376A; US9953590B2

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